

## AUTHOR INDEX

- Al-Ani, A.N. (Abu-Ghraib, Iraq) and Dudas, M.J. (Edmonton, Alta., Canada)  
Influence of calcium carbonate on mean weight diameter of soil ..... 19
- Allen, C., *see* Quirke, S. et al.
- Allmaras, R.R., *see* Hadas, A. et al.
- Alston, A.M., *see* Misra, R.K. et al.
- Baker, C.J., Springett, J.A. (Palmerston North, New Zealand) and Chaudhry, A.D.  
(Faisalabad, Pakistan)  
Barley seeding establishment by direct drilling in a wet soil. 3. Comparison of six sowing techniques ..... 167
- Baker, C.J. *see* Chaudhry, A.D. and Baker, C.J.
- Boone, F.R. (Wageningen, The Netherlands)  
Weather and other environmental factors influencing crop responses to tillage and traffic ..... 283
- Braunack, M.V., and Dexter, A.R. (Glen Osmond, Australia)  
The effect of aggregate size in the seedbed on surface crusting and growth and yield of wheat (*Triticum aestivum*), L., cv. Halberd) under dryland conditions ..... 133
- Chaudhry, A.D. and Baker, C.J. (Palmerston North, New Zealand)  
Barley seedling establishment by direct drilling in a wet soil. 1. Effects of openers under simulated rainfall and high water-table conditions ..... 43
- Chaudhry, A.D. *see* Baker, C.J. et al.
- Cotterill, P.J., and Sivasithamparam, K. (Nedlands, Australia)  
The effect of tillage practices on distribution, size, infectivity and propagule number of the take-all fungus (*Gaeumannomyces graminis* var. *tritici*) ..... 183
- Curl, E.A., *see* Rickerl, D.H. et al.
- Derpsch, R., *see* Roth, C.H. et al.
- Dexter, A.R. (Glen Osmond, SA, Australia)  
Advances in characterization of soil structure ..... 199
- Dexter, A.R. *see* Braunack, M.V., and Dexter, A.R.  
*see* Misra, R.K. et al.
- Dudas, M.J. *see* Al-Ani, A.N. and Dudas, M.J.
- Frede, H.-G., *see* Roth, C.H. et al.
- Gordon, W.B., *see* Rickerl, D.H. et al.
- Hadas, A. (Bet Dagan, Israel), Larson, W.E., and Allmaras, R.R. (St. Paul, MN, U.S.A.)  
Advances in modeling machine-soil-plant interactions ..... 349
- Håkansson, I. (Uppsala, Sweden), Voorhees, W.B. (Morris, MN, U.S.A.), and Riley, H.  
(Nes-Hedmark, Norway)  
Vehicle and wheel factors influencing soil compaction and crop response in different traffic regimes ..... 239
- Harker, K.N., *see* Malhi, S.S. et al.
- Heard, J.R., Klavivko, E.J. and Mannering, J.V. (West Lafayette, IN, U.S.A.)  
Soil macroporosity, hydraulic conductivity and air permeability of silty soils under long-term conservation tillage in Indiana ..... 1
- Hettiaratchi, D.R.P. (Newcastle upon Tyne, Gt. Britain)  
Theoretical soil mechanics and implement design ..... 325
- Klavivko, E.J., *see* Heard, J.R. et al.
- Larson, W.E., *see* Hadas, A. et al.
- Malhi, S.S., Mumey, G., O'Sullivan, P.A., and Harker, K.N. (Edmonton, Alta., Canada)  
An economic comparison of barley production under zero and conventional tillage ..... 159

Mannerling, J.V., Book Review of <i>Erosion, Anatomy, Physiology and Psychology of Erosion</i> Vol. 11, John Wiley & Sons .....	93
Mannerling, J.V., <i>see</i> Heard, J.R. et al.	
Maulood, A.O., <i>see</i> Salih, R.O. and Maulood, A.O.	
McCartney, D.A. <i>see</i> Stinner, B.R. et al.	
Meyer, B., <i>see</i> Roth, C.H. et al.	
Misra, R.K., Alston, A.M., and Dexter, A.R. (Glen Osmond, Australia) Root growth and phosphorus uptake in relation to the size and strength of soil aggregates. I. Experimental studies .....	103
Misra, R.K., Dexter, A.R., and Alston, A.M. (Glen Osmond, Australia) Root growth and phosphorus uptake in relation to the size and strength of soil aggregates. II. Prediction by a stochastic model .....	117
Mumey, G., <i>see</i> Malhi, S.S. et al.	
O'Sullivan, P.A., <i>see</i> Malhi, S.S. et al.	
Quirke, S., Scheffler, O. and Allen, C. (Cape Town, South Africa) An evaluation of the wear behaviour of metallic materials subjected to soil abrasion .....	27
Rickerl, D.H., Gordon, W.B. (Brookings, SD, U.S.A.), Curl, E.A. and Touchton, J.T. (Auburn, AL, U.S.A.) Winter legume and tillage effects on cotton growth and soil ecology .....	63
Riley, H., <i>see</i> Håkansson, I. et al.	
Roth, C.H. (Berlin, F.R.G.) Meyer, B., Frede, H.-G. (Göttingen, F.R.G.) and Derpsch, R. (Eschborn, F.R.G.) Effect of mulch rates and tillage systems on infiltrability and other soil physical properties of an Oxisol in Parana, Brazil .....	81
Salih, R.O. and Maulwood, A.O. (Baghdad, Iraq) Influence of temperature and cycles of wetting and drying on modulus of rupture .....	73
Scheffler, O., <i>see</i> Quirke, S. et al.	
Sivasithamparam, K., <i>see</i> Cotterill, P.J., and Sivasithamparam, K.	
Soane, B.D. (Penicuik, Midlothian, Gt. Britain) The 11th Conference of ISTRO, an opportunity for appraisal and advancement .....	197
Springett, J.A., <i>see</i> Baker, C.J. et al.	
Stinner, B.R., McCartney, D.A., and van Doren, D.M. Jr. (Wooster, OH, U.S.A.) Soil and foliage arthropod communities in conventional, reduced and no-tillage corn (maize, <i>Zea mays</i> L.) systems: A comparison after 20 years of continuous cropping .....	147
Touchton, J.T., <i>see</i> Rickerl, D.H. et al.	
Van Doren, D.M. Jr., <i>see</i> Stinner, B.R. et al.	
Voorhees, W.B., <i>see</i> Håkansson, I. et al.	

